Connecting the Dots

How MCP Enables Wi-Fi AI Agents

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CWNE #511

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The Right Tools in the Right Order



- I had a leak. I wanted it stopped
- The plumber arrived with his toolbox
- He picked the right tools: detector, gauge, wrench
- He chained them together and fixed it

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Sound familiar?



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Sound familiar?



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Sound familiar?



AI agent

Model: interprets & guides decisions

Tools: read & act via APIs / MCP

Loop: observe, decide, act, repeat

Mission & context

Objective: what to achieve

Context: relevant information

Instructions: role, rules & limits

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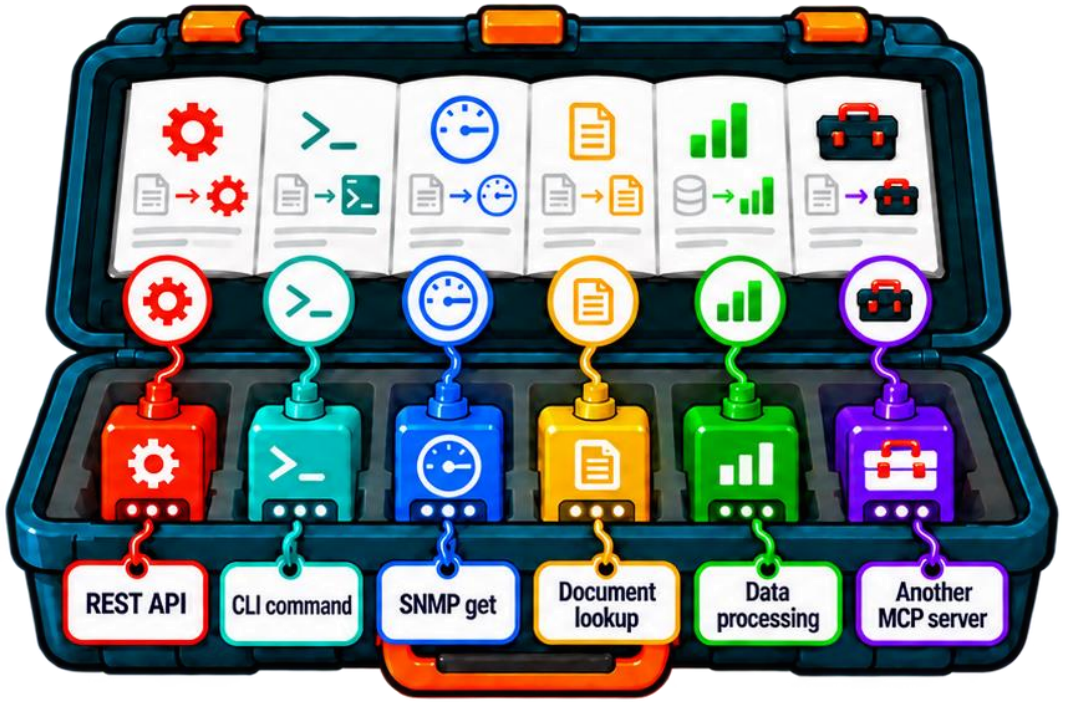
Inside an MCP Server

Model Context Protocol

Open protocol for AI to discover and use external data and tools

Tools

what the agent can call



Also in MCP

Resources
Data the server exposes

Prompts
Request templates you launch

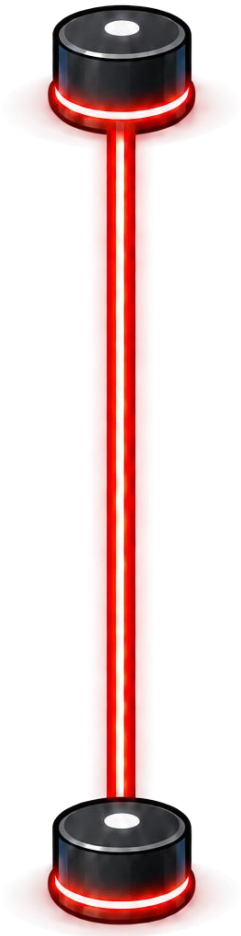
Almost any capability can become a tool

Expose only what the agent needs

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The Tools Stay Fixed. The Agent Adapts.

- A script follows a fixed path



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The Tools Stay Fixed. The Agent Adapts.

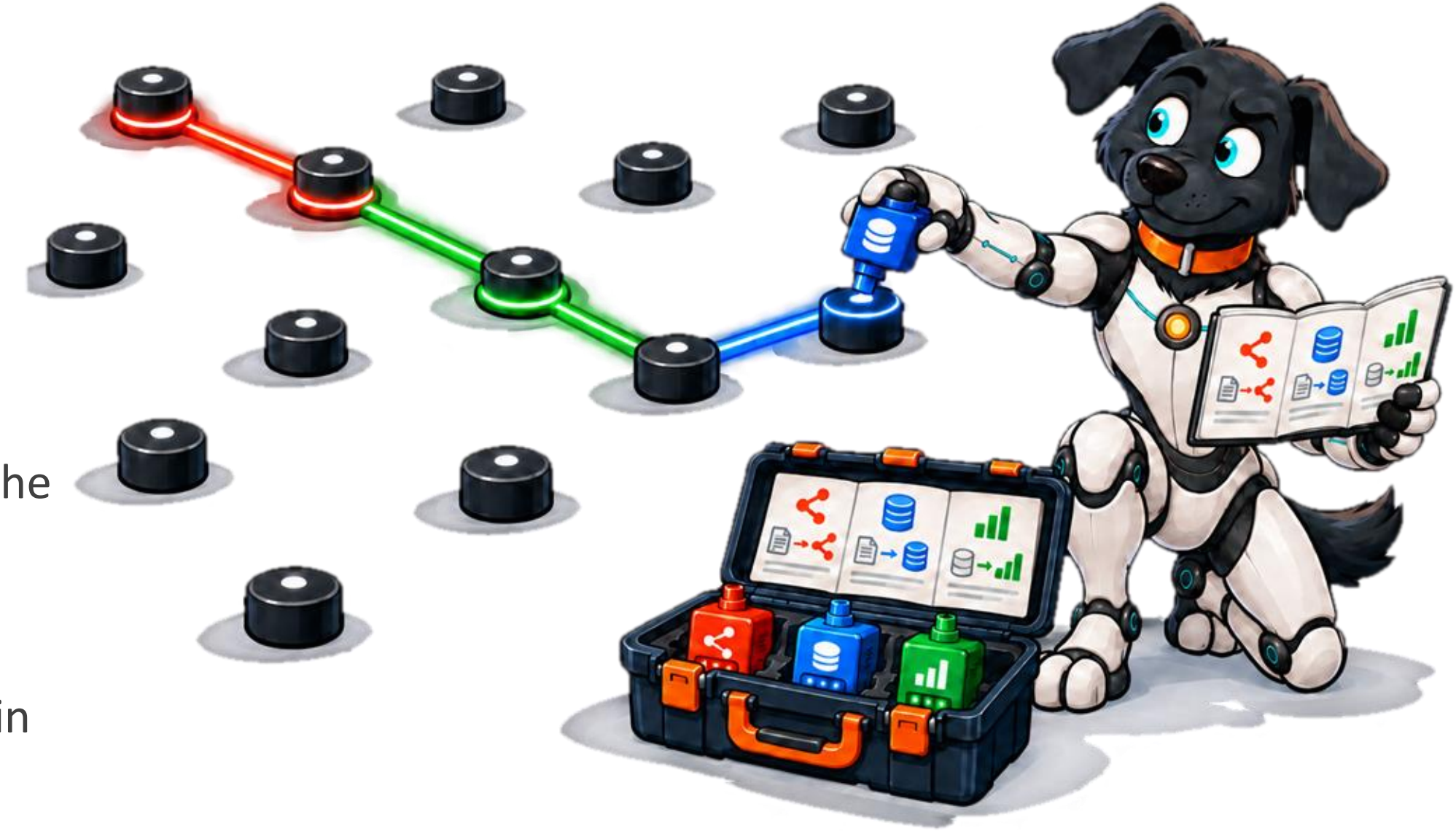
- A script follows a fixed path
- An MCP server exposes it as a documented tool



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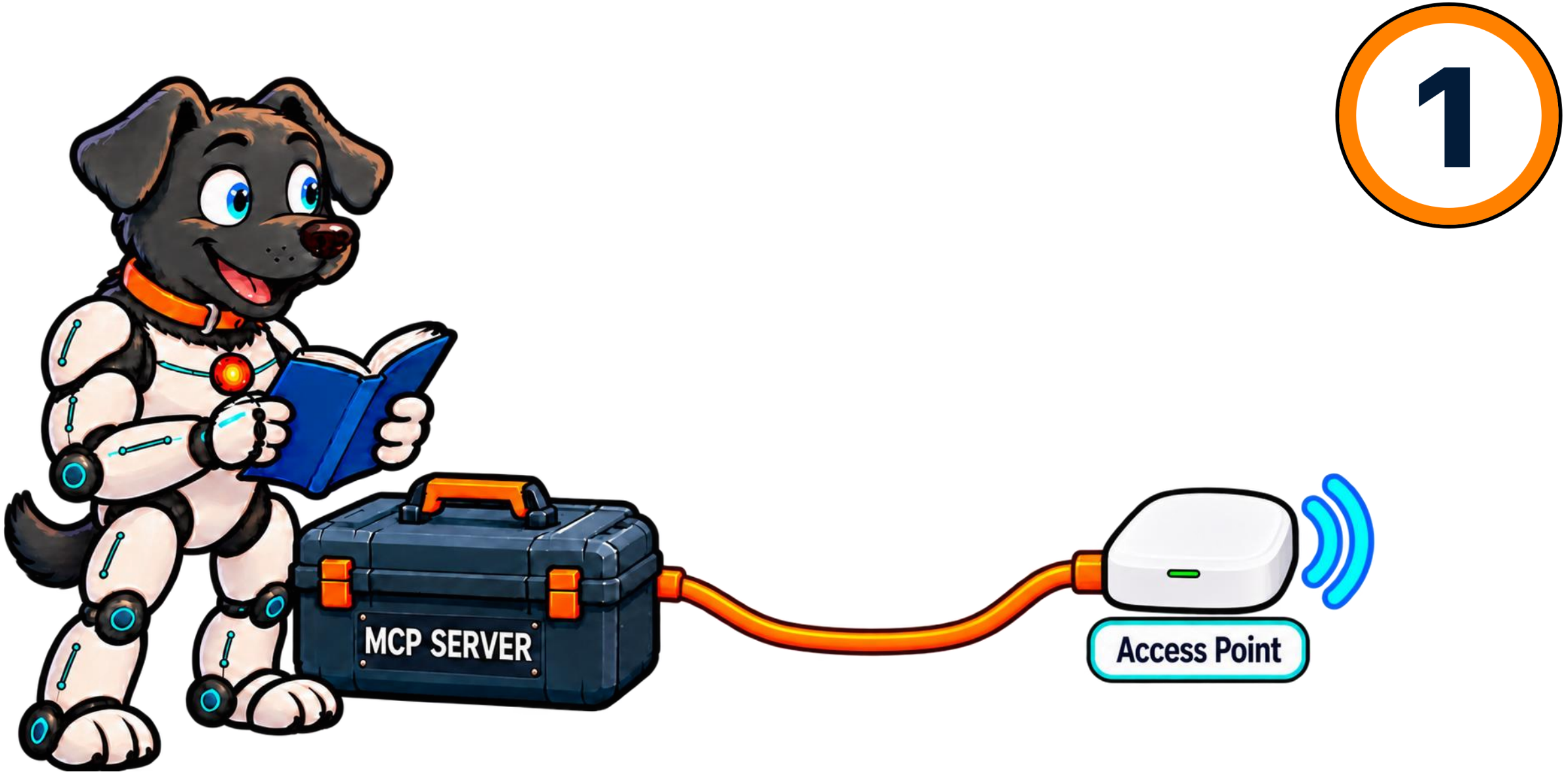
The Tools Stay Fixed. The Agent Adapts.

- A script follows a fixed path
- An MCP server exposes it as a documented tool
- The agent reads the tool descriptions
- It chooses which tools to call, and in what order



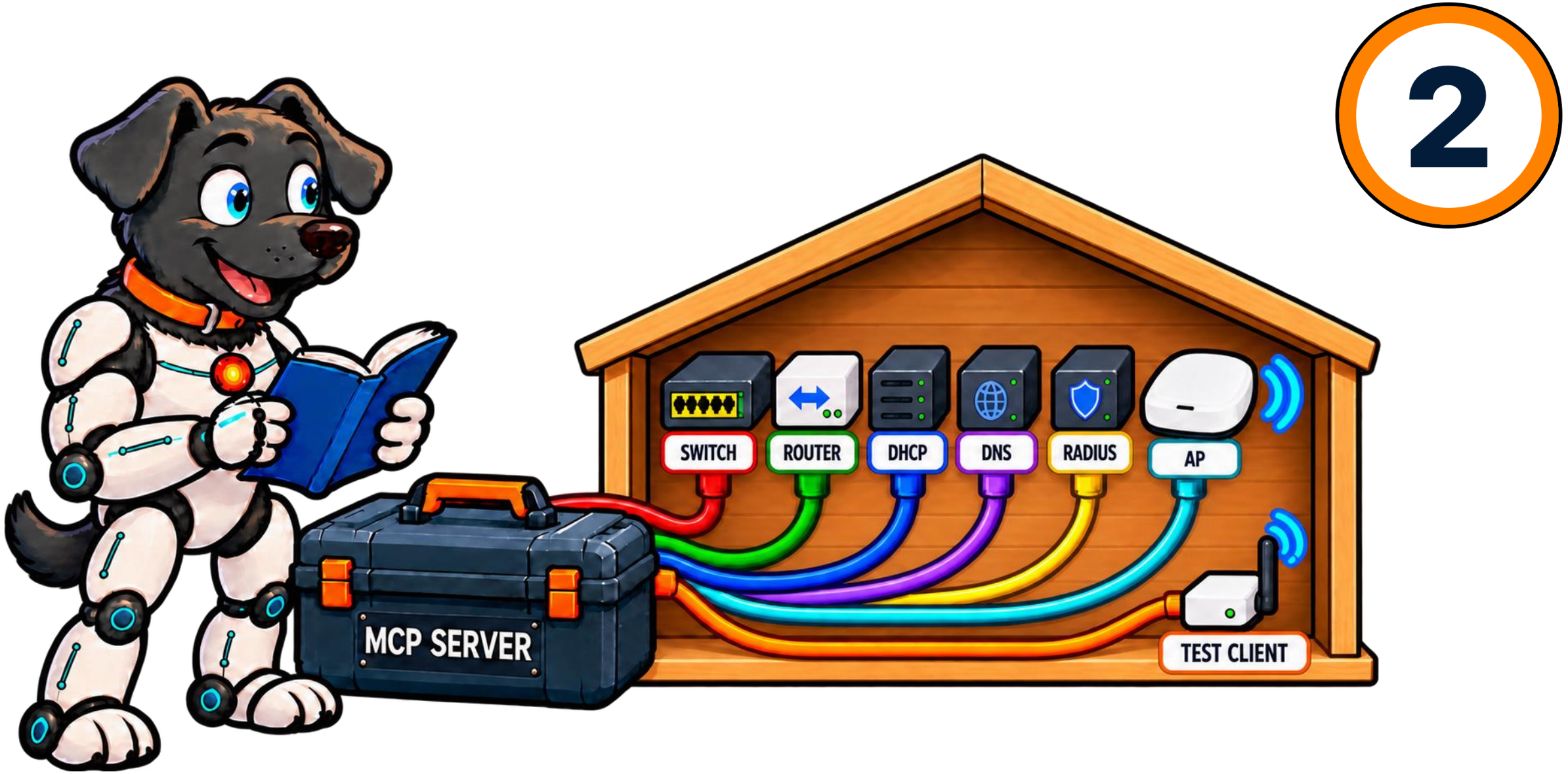
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Where can this go?



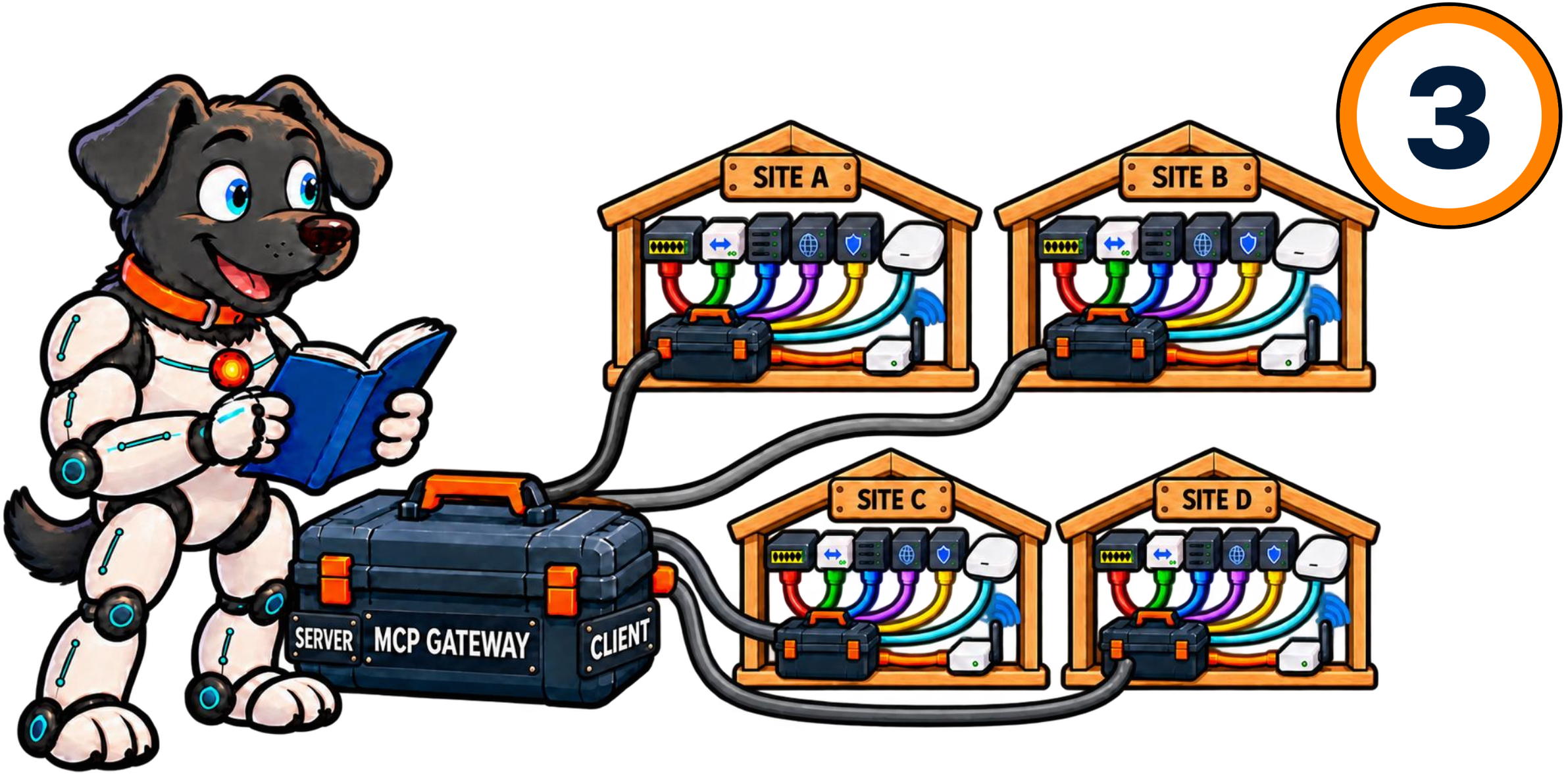
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Where can this go?



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Where can this go?



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The video file used in the demo is in the same folder as this PDF document.

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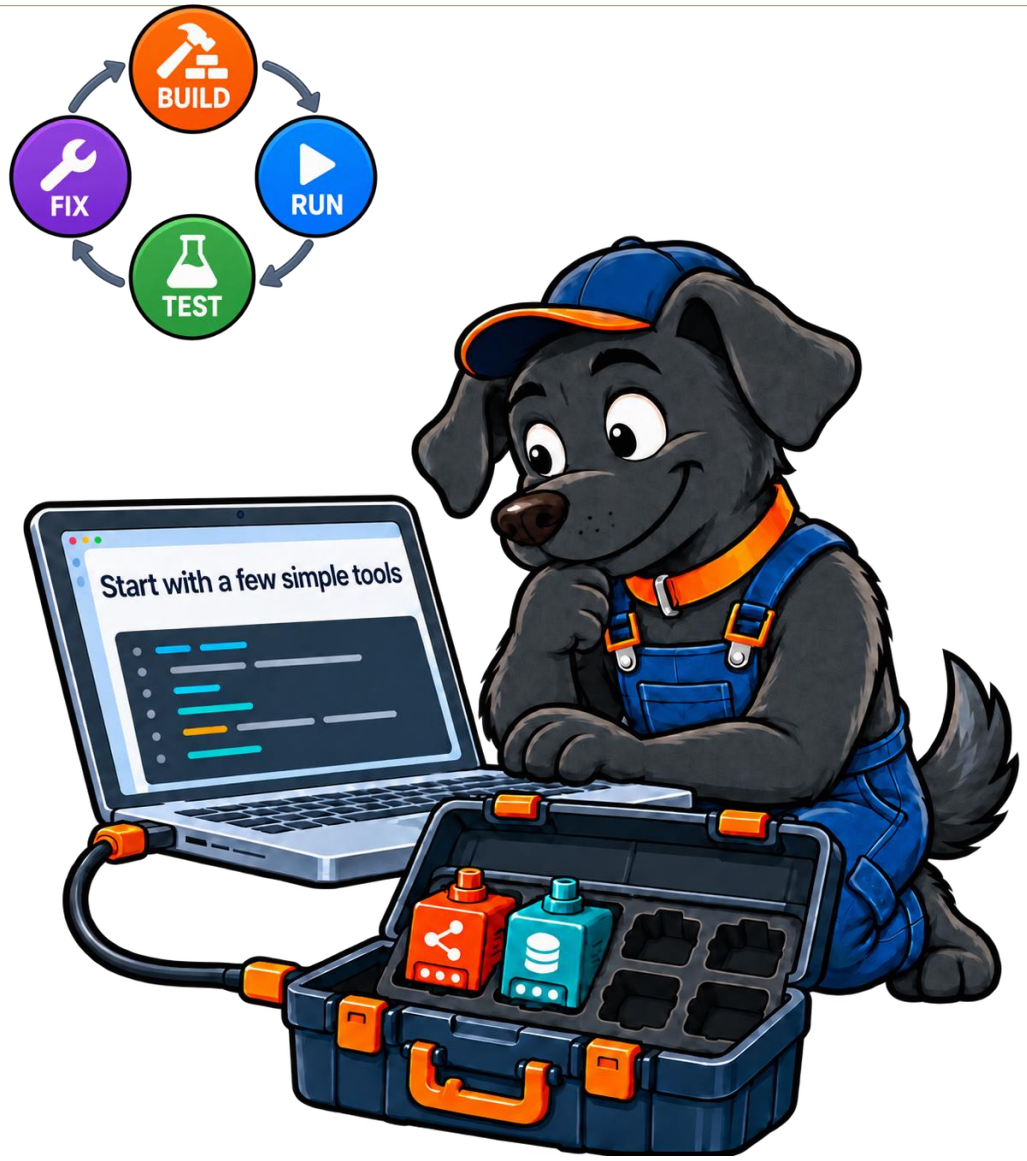
Your First Local MCP Server

Vibe coding: you need it, you build it!

- Create your first MCP Server

- Continue with a few simple new tools

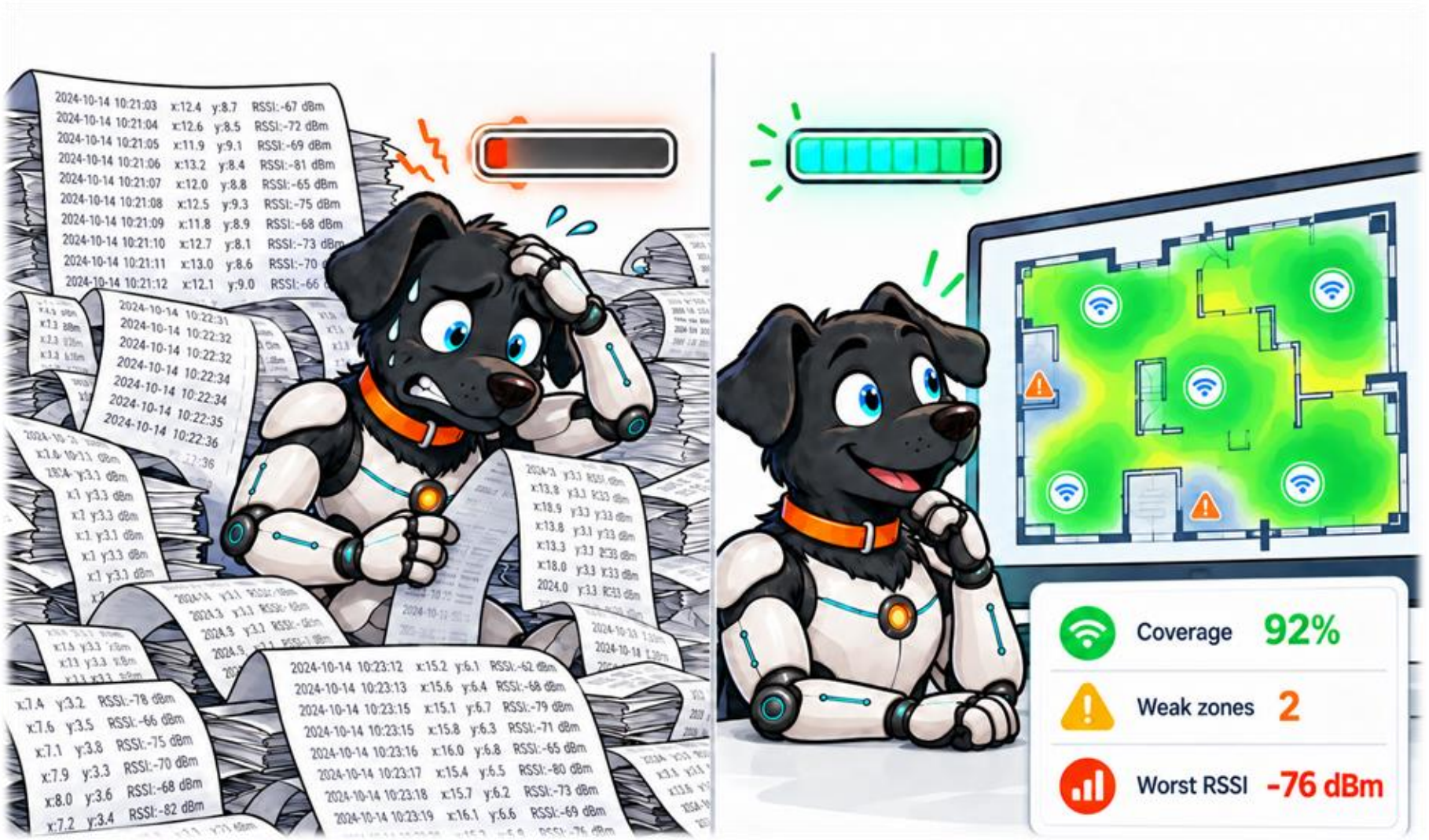




- Describe each tool clearly. That description becomes the agent's manual
- Your expertise guides the coding agent. No magic involved
- Let your coding agent build, run, test and fix
- Validate the result, then expand gradually

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A Good Tool Returns Signal, Not Noise

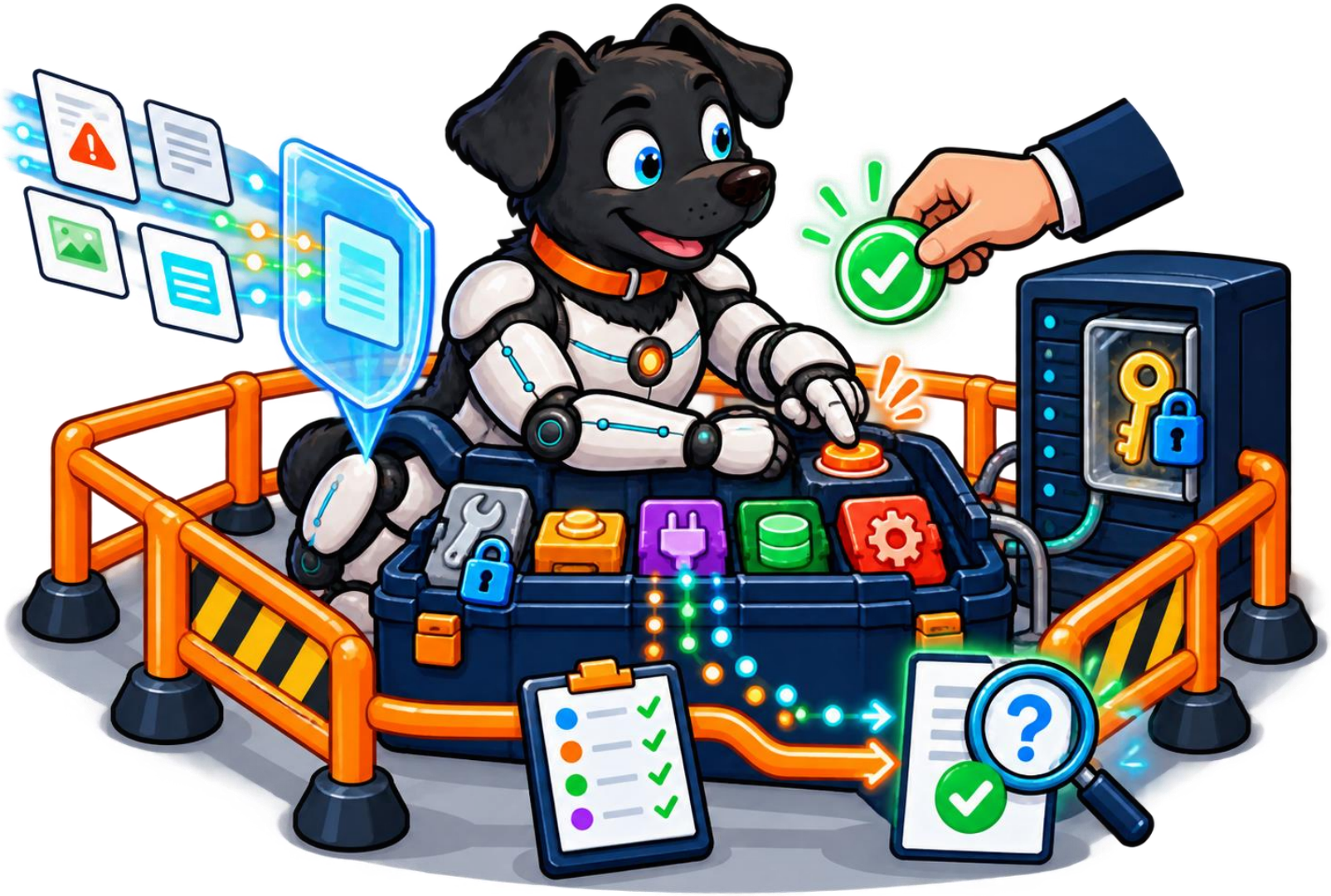


- Everything the agent reads costs tokens
- Process, validate and aggregate on the server
- Return only what matters. Keep raw data on demand
- Require it from day one

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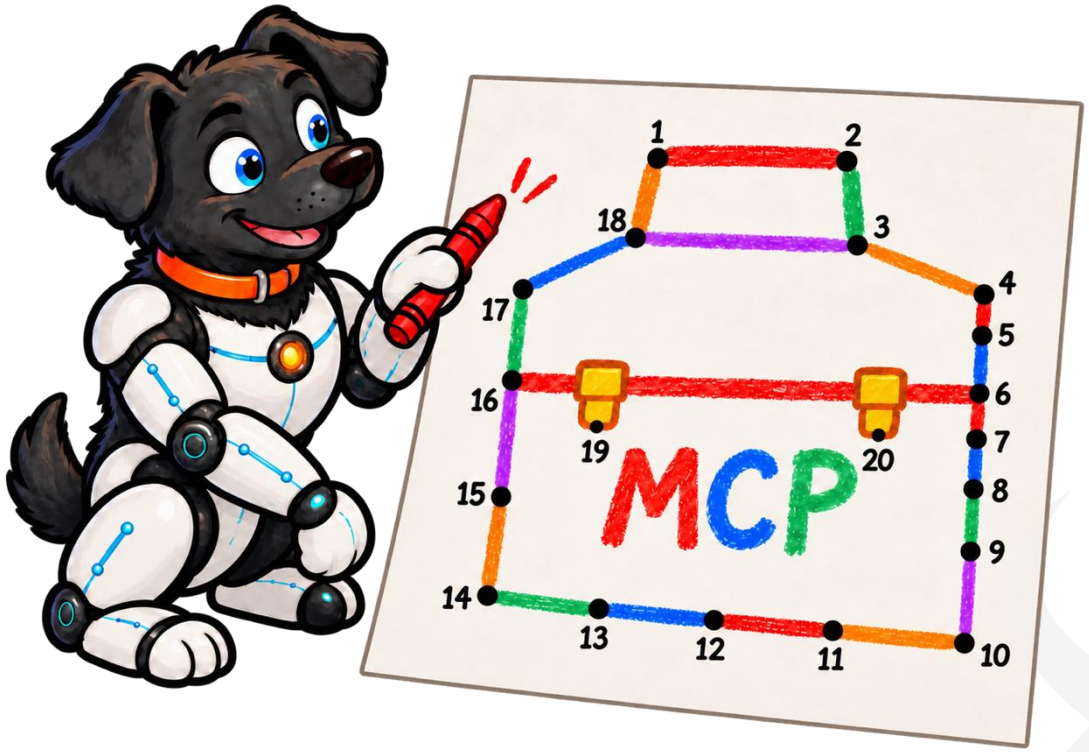
Give the Agent Tools and Guardrails

- Read-only by default
- Explicit approval before writes
- Credentials stay server-side
- Treat tool output as untrusted
- Log every call. Verify every result



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Your infrastructure already has the dots.
MCP lets AI agents draw the lines



Give it a try!

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